



Event Horizon

by Arya Akhavan (November 2013)

Angles for R.I. = 1.620

67 + 15 girdles = 82 facets

3-fold, mirror-image symmetry

96 index

L/W = 1.010 T/W = 0.533 U/W = 0.496

P/W = 0.429 C/W = 0.175

Vol./W³ = 0.195

PAVILION

P1	43.19°	06-26-38-58-70-90	Cut to centerpoint.
G1	90.00°	06-26-38-58-70-90	Set stone size.
P2	41.50°	07-25-39-57-71-89	Meet P1, G1
P3	44.04°	05-27-37-59-69-91	Meet P1, P2
P4	45.37°	96-32-64	Meet P1, P2, P3
P5	55.00°	03-29-35-61-67-93	Meet P1, G1, P3
P6	55.00°	96-32-64	Meet P3, P4, P5
G2	90.00°	03-29-35-61-67-93	Level girdle.
G3	90.00°	96-32-64	Level girdle.

CROWN

C1	45.00°	96-32-64	Set girdle width.
C2	45.00°	03-29-35-61-67-93	Level girdle.
C3	41.95°	06-26-38-58-70-90	Level girdle.
C4	39.84°	04-28-36-60-68-92	Meet G1, G2, C2, C3
C5	34.53°	03-29-35-61-67-93	Meet C1, C2, C4; C3, C4
C6	32.36°	02-30-34-62-66-94	Meet C1, C2, C4, C5
C7	33.98°	96-32-64	Meet C1, C2, C4, C5, C6
T	0.00°	Table	Meet C5, C6; C6, C7

This design is a bit of a departure from how I normally generate girdle outlines, but it pays off. The face-up appearance of the stone has interesting rays that are technically windows, but give it a cool "space" effect! Works in materials from beryl to CZ (RI = 1.58 - 2.16) with no changes, but I like it in minty tourmaline.

Suggested size = 7-15 mm

C:\Users\ARYADE~1\Pictures\DESIGN~1\WORKSI~1\6EVENT~1.GEM